Under the Paperwork Reduction Act of 1995, no persons are required to respond to

PTC/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
o a collection of information unless it displays a valid OMB page 11/10.

itute for form 1449A/PTO

THE TRADES

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary) Sheet 1 of 3

a collection of information unless it displays a valid OMB control number.				
Application Number	10/721,537			
Filing Date	November 25, 2003			
First Named Inventor	Theresa Callaghan			
Group Art Unit	1654			
Examiner Name				
Attorney Docket Number	ROC0026 DIV1			

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.1	U.S. Patent Docume	nt Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
56		3,755,560	Α	Dickert et al.	08/28/1973	
		4,254,105	Α	Fukuda	03/03/1981	
		4,421,769	Α	Dixon et al.	12/20/1983	
		4,758,433	Α	Johnson et al.	07/19/1988	
		4,960,764	Α	Figueroa, Jr. et al.	10/02/1990	
		5,260,065	Α	Mathur et al.	11/09/1993	
		6,103,218	Α	Brucker et al.	08/15/2000	
		6,153,208	Α	McAtee et al.	11/28/2000	
		6,130,254	Α	Fisher et al.	10/10/2000	
		6,224,875	B1	Bombardelli et al.	05/01/2001	
		6,410,062	B1	Callaghan et al. (Docket ROC0021)	06/25/2002	
		6,479,080	B2	Bombardelli et al.	11/12/2002	
		6,620,419	B1	Lintner	09/16/2003	
		2001/0021400	A1	Bombardelli et al.	09/13/2001	
		2002/0182166	A1	Martin et al. (Docket J&J2097)	12-05-2002	
		2003/0003170	A1	Callaghan et al.	01/02/2003	
$\bigvee$		2003/0077343	A1	Martin et al. (Docket J&J2138)	04/24/2003	

	FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. <sup>1</sup>	Foreign Office <sup>3</sup>	Patent Documer  Number <sup>4</sup> Kir	nt ndCode⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear	T <sup>6</sup>
Sc		. EPO	0 273 202	B1	Van Scott, Eugene J., Dr.	06/21/1995		
SC		EPO	0 427 411	B1	Richardson Vicks, Inc.	05/15/1991		
SL		wo	94/06800	A1	Madeca	03/31/1994	English Abstract	N
SZ		wo	96/31194	A2	Johnson & Johnson Consumer Co.	10/10/1996		
E		wo	97/02807	A1	C3D	01/30/1997	English Abstract	N
Se		wo	00/74695	A2	Indena S.P.A.	12/14/2000	·	
82		wo	00/74699	A1	Johnson & Johnson Consumer FR	12/14/2000		
8		wo	02/074280	A1	Johnson & Johnson Consumer Co.	09/26/2002		

Date Signature Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents, 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Palent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to tion unless it displays a valid OMR control numb

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary) Sheet 2 of 3

a conection of mioritation diseas it displays	a valid Ollib Control Homber.
Application Number	10/721,537
Filing Date	November 25, 2003
First Named Inventor	Theresa Callaghan
Group Art Unit	1654
Examiner Name	
Attorney Docket Number	ROC0026 DIV1

Examiner Cite (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published  JOHNSON, TIMOTHY, CRG Ethnobotany Desk Reference, CRC Press, NY, 1999, pp.198-1995,16-517,823-824.  International Plant Names Index published on the Internet, http://www.ipni.org.,icter	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
JOHNSON, TIMOTHY, CRC Ethnobotany Desk Reference, CRC Press, NY, 1999, pp.198-199,516-517,823-84.  Justinational Plant Names Index published on the Internet, http://www.ipni.org0.cud.6/2se2 CONNOR, MICHAEL, WHEELER, LARRY, Depletion of Cutaneous Glutathione by Ultraviolet Radiation, Photochemistry and Photobiology, 1987,Vol. 46, No. 2, pp. 239-245.  FISHER, GARY J., VOORHEES, JOHN J., Molecular Mechanisms of Photosging and its Preventions by Retinoic Acid: Ultraviolet Irradiation Induces MAP Kinase Signal Transduction Cascades that Induce AP-1-Regulated Matrix Metalloproteinases that Degrade Human Skin In Vivo, The Society for Investigative Dermatology, Inc. 1998pp. 61-68.  FISHER, GARY J., SUBHASH C. DATTA, HARVINDER S. TALWAR, ZENG-QUAN WANG, JAMES VARANI, SEWON KANG AND VOORHEES, JOHN J., Nature, 1996, Vol 379, pp.335-339.  MANADA, KATSUMI, SAWAMURA, DAIGUKE, TAMAI, KATSUTO, FIRSHIMOTO, ISAO, KOBAYAHI, SHIZUKO, Photoprotective Effects of Esterified Glutathione-Ageinst Ultraviolet Binduced Sunburn Cell Formetien in the Hairless Mice, The Society for Investigative Dermatology, 166, 4097; pp.777-7730.  HAUSEN, B.M. AND SCHULZ, K.H., Chrysanthemum Allergy, Arch. Derm. Res. 1976, Vol. 255,pp.111-121  MENAGE, H.DUP., ROSS, J.S., NORRIS, P.G. HAWK, J.L.M., WHITE I.R., Contact and Photocontact Sensitization in Chronic Actinic Dermatilis: Sesquiterpene Lactone Mix is an Important Allergen, British Journal of Dermatology, 1995;132:543-547.  MEISTER, ALTON, Glutathione, Ascorbate, and Celtular Protection, Cancer Research Suppl, 54,1994,pp. 1909s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers, NY,1995;pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1992,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesguiterpene Lactone Mix, Contact Dermatilis 1998,38:207-208.			Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	T²		
International Plant Names Index published on the Internet, http://www.ipni.org \( \text{Uccord} \) \( \text{Qco}\) \( \text		TOUNGON TIMOTHY CDC Ethanhatony Dock Reference CDC Proce NV 1000 pp 100				
CONNOR, MICHAEL, WHEELER, LARRY, Depletion of Cutaneous Glutathione by Ultraviolet Radiation, Photochemistry and Photobiology, 1987, Vol. 46, No. 2, pp. 293-245.  FISHER, GARY J., VOORNEES, JOHN J., Molecular Mechanisms of Photoging and its Preventions by Retinoic Acid: Ultraviolet Irradiation Induces MAP Kinase Signal Transduction Cascades that Induce AP-1-Regulated Matrix Metalloproteinases that Degrade Human Skin In Vivo, The Society for Investgative Dermatology, Inc. 1998pp. 61-68.  FISHER, GARY J., SUBHASH C. DATTA, HARVINDER S. TALWAR, ZENG-QUAN WANG, JAMES VARANI, SEWON KANG AND VOORHEES, JOHN J., Nature, 1996, Vol 379, pp.335-339.  HANADA, KATSUMI, SAWAMURA, DAIGUKE, TAMAH, KATSUTO, FIASHIMGTO, ISAO, KOBAYAHT, STIZUKO, Photoprotective Effect of Esterfield Glutathione-Ageinst Ultraviolet B. Induced Sunburn Cell Formetien in the Haidess Mice. The Society for Investigative Dermatology, Inc. 1997, pp.727-730.  HAUSEN, B.M. AND SCHULZ, K.H., Chrysanthemum Allergy, Arch. Derm. Res. 1976, Vol. 255, pp.111-121  MENAGE, H.DUP., ROSS, J.S., NORRIS, P.G. HAWK, J.L.M., WHITE I.R., Contact and Photocontact Sensitization in Chronic Actinic Dermatitis: Sesquiterpene Lactone Mix is an Important Allergen, British Journal of Dermatology, 1996;132:543-547.  MEISTER, ALTON, Glutathione, Ascorbate, and Cellular Protection, Cancer Research Suppl, 34,1994, pp. 1969s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers, NY,1985, pp.345-358.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982, 34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis, 1989, 39:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, 1998;pp.495-195.  SCHULZ,K.H., HAU	41					
FISHER, GARY J., VOORHEES, JOHN J., Molecular Mechanisms of Photoaging and its Preventions by Retinoic Acid: Ultraviolet Irradiation Induces MAP Kinase Signal Transduction Cascades that Induce AP-1-Regulated Matrix Metalloproteinases that Degrade Human Skin In Vivo, The Society for Investgative Dermatology, Inc. 1998pp. 61-68.  FISHER, GARY J., SUBHASH C. DATTA, HARVINDER S. TALWAR, ZENG-QUAN WANG, JAMES VARANI, SEWON KANG AND VOORHEES, JOHN J., Nature, 1996, Vol 379, pp.335-339.  HANADA, KATSUMI, SAWAMURA, DAIGUKE, TAMAI, KATSUTO, HASHIMOTO, ISAO, KOBAYAHI, SHIZUKO, Photoprotective Effect of Egterffied Glutathione-Ageirat Ultraviolet Bladued-Sunburn Gelf Formeties in the Haidess Mice. The Society for Investigative Dermatology, Inc. 1997, pp.727-730.  HAUSEN, B.M. AND SCHULZ, K.H., Chrysanthemum Allergy, Arch. Derm. Res. 1976, Vol. 255,pp.111-121  MENAGE, H.DUP., ROSS, J.S., NORRIS, P.G. HAWK, J.L.M., WHITE I.R., Contact and Photocontact Sensitization in Chronic Actinic Dermatitis: Sesquiterpene Lactone Mix is an Important Allergen, British Journal of Dermatology, 1995;132:543-547.  MEISTER, ALTON, Glutathione, Ascorbate, and Cellular Protection, Cancer Research Suppl, 54,1994,pp. 1969s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers NY,1985,pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,39:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251;pp.235-244.  STEENVOORDEN, DAVID, H						
JAMES VARANI, SEWON KANG AND VOORHEES, JOHN J., Nature, 1996, Vol 379, pp.335-339.  HANADA, KATSUMI, SAWAMURA, DAISUKE, TAMAI, KATSUTO, HASHIMOTO, ISAO, KOBAYAHI, SHIZUKO, Pholoprotective Effect of Esterffied Glutathione-Ageinst Ultreviolet B-Induced Sunburn Cell Formation in the Hairless Mice. The Society for Investigative Dermatology, Inc. 1997, pp.727-730.  HAUSEN, B.M. AND SCHULZ, K.H., Chrysanthemum Allergy, Arch. Derm. Res. 1976, Vol. 255,pp.111-121  MENAGE, H. DUP., ROSS, J.S., NORRIS, P.G. HAWK, J.L.M., WHITE I.R., Contact and Photocontact Sensitization in Chronic Actinic Dermatitis: Sequel Herman Lactone Mix is an Important Allergen, Brilish Journal of Dermatology, 1995:132:543-547.  MEISTER, ALTON, Glutathione, Ascorbate, and Cellular Protection, Cancer Research Suppl, 54,1994,pp. 1969s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers, NY,1985,pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenoilde and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASOUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm., Forsch, 1975;251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates in Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acceptlycystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998, 67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultur	4		FISHER, GARY J., VOORHEES, JOHN J., Molecular Mechanisms of Photoaging and its Preventions by Retinoic Acid: Ultraviolet Irradiation Induces MAP Kinase Signal Transduction Cascades that Induce AP-1-Regulated Matrix Metalloproteinases that Degrade Human Skin In Vivo, The Society for Investgative Dermatology, Inc. 1998pp. 61-68.			
KOBAYAHI, SHIZUKO, Photoprotective Effect of Esterified Glutathione Ageinst Ultreviolet Biladused Sunburn Cell Formation in the Hairless Mice, The Society for Investigative Dermatology, Inc., 1997, pp.727-730.  HAUSEN, B.M. AND SCHULZ, K.H., Chrysanthemum Allergy, Arch. Derm. Res. 1976, Vol. 255, pp.111-121  MENAGE, H.DUP., ROSS, J.S., NORRIS, P.G. HAWK, J.L.M., WHITE I.R., Contact and Photocontact Sensitization in Chronic Actinic Dermatitis: Sesquiterpene Lactone Mix is an Important Allergen, British Journal of Dermatology, 1995;132:543-547.  MEISTER, ALTON, Glutathione, Ascorbate, and Cellular Protection, Cancer Research Suppl, 54,1994, pp. 1969s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers NY, 1985, pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, 67(6):pp.651-656.	is/		JAMES VARANI, SEWON KANG AND VOORHEES, JOHN J., Nature, 1996, Vol 379, pp.335-339.			
## Description of Protochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## Description of Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## Description of Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDER CONTROL OF Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDER CONTROL OF Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDER CONTROL OF Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDEN STORD OF Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDEN STORD OF Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDEN STORD OF Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  ## WINDEN STORD OF Photochemistry and Photobiology, 1998, Biology 27, 1995-pp. 61-  ## WINDEN STORD OF Photochemistry and Photobiology, 1998, Biology 27, 1995-pp. 61-			KOBAYAHI, SHIZUKO, Photoprotective Effect of Esterified Glutathione Against Ultraviolet B- Induced Sunburn Cell Formation in the Hairless Mice. The Society for Investigative Dermatology, Inc. 1997, pp.727-730.	,		
Photocontact Sensitization in Chronic Actinic Dermatitis: Sesquiterpene Lactone Mix is an Important Allergen, British Journal of Dermatology, 1995:132:543-547.  MEISTER, ALTON, Glutathione, Ascorbate, and Cellular Protection, Cancer Research Suppl, 54,1994,pp. 1969s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers , NY, 1985,pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, vol.9, No. 1, 1998:pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBANK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells and Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UV8-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	4		255,pp.111-121			
54,1994,pp. 1969s-1975s.  MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers , NY,1985,pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998:pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	Z		Photocontact Sensitization in Chronic Actinic Dermatitis: Sesquiterpene Lactone Mix is an Important Allergen, British Journal of Dermatology, 1995:132:543-547.			
MEZEI, MICHAEL, Liposomes as a Skin Drug Delivery System, Elsevier Science Publishers, NY,1985,pp.345-358.  MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	W		54,1994,pp. 1969s-1975s.			
MEZEI, MICHAEL, GULASEKHARAM, VIJEYALAKSHMI, Liposomes-A Selective Drug Delivery System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol, 1982,34:473-474.  ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	1					
ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.  SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251;pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-			System for the Topical Route of Administration: Gel Dosage Form, J. Pharm. Pharmacol,	-		
SPETTOLI, ELISA, SILVANI, SIMONETTA, LUCENTE, PASQUALE, GUERRA, LILIANA, VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998;pp.49-50.  SCHULZ,K.H., HAUSEN, B.M., WALLHOFER, SCHMIDT-LOFFLER, P., Chrysanthemem-Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	4		ORION, E., PAULSEN, E., ANDERSEN, K.E., MENNE T., Comparison of Simultaneous Patch Testing with Parthenolide and Sesquiterpene Lactone Mix, Contact Dermatitis 1998,38:207-208.			
Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.  STEENVOORDEN, DAVID, HASSELBAINK, DANNY, BEIJERSBERGEN VAN HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-			VINCENZI, COLOMBINA, Contact Dermatitis Caused by Sesquiterpene Lactones, American Journal of Contact Dermatitis, Vol.9, No. 1, 1998:pp.49-50.			
HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.  TYRRELL, R.M., PIDOUX, M., Correlation Between Endogenous Glutathione Content and Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.  VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	w		Allergic, Arch. Derm. Forsch, 1975,251:pp.235-244.			
VAN DEN BROEKE, LEON T., BEIJERSBERGEN VAN HENEGOUWEN, GERARD, M. J., Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	W		HENEGOUWEN, GERARD M.J., Protection Against UV-Induced Reactive Intermediates In Human Cells And Mouse Skin By Glutathione Precursors: A Comparison Of N-Acetylcystein And Glutathione Ethylester, Photochemistry and Photobiology, 1998,67(6):pp.651-656.			
Topically applied N-acetylcysteine as a protector against UVB-induced systemic immunosuppression, Journal of Photochemistry and Photobiology, B: Biology 27, 1995:pp. 61-	4		Sensitivity of Cultured Human Skin Cells to Radiation at Defined Wavelengths in the Solar Ultraviolet Range, Photochemistry and Photobiology, 1998, Vol. 47, No. 3, ppd. 405-412.			
1 1 00.	4		Topically applied N-acetylcysteine as a protector against UVB-induced systemic			

·	\		
Examiner Signature Swam	1). 100	Date Considered	6-14-04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation Is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary) 3 of 3

Approved for use through 1 U.S. Patent and Trademark Office: U.S. DEP a collection of information unless it displays	
Application Number	10/721,537
Filing Date	November 25, 2003
First Named Inventor	Theresa Callaghan
Group Art Unit	1654
Examiner Name	
Attorney Docket Number	ROC0026 DIV1

	·	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
		Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item	_,
Examiner	Cite	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	T <sup>2</sup>
Initials*	No.1	publisher, city and/or country where published	
N		SAGARIN, EDWARD AND BALSAM, M.S., Cosmetics Science and Technology, Second	
10		Edition, Vol. 1, (1972) pp.32-43	
		WENNINGER, JOHN A., MCEWEN, G.N. JR., International Cosmetic Ingredient Dictionary and	
Sc		Handbook, Seventh Edition (1997)Vol. 2, The Cosmetic, Toiletry, and Fragrance Association,	
		Washington, DC, pp. 1626, 1650-1667, 1654-1661, 1693-1697,1673-1686.	
		BARSBY, R.W.J. SALAN, UMIT, NIGHT, D.W., HOULT, J.R.S., Feverfew and Vascular Smooth	
W	1	Muscle: Extracts from Fresh and Dried Plants Show Opposing Pharmacological Profiles,	
,,,		Dependent upon Sesquiterpene Lactone Content, Planta Med. 59(1993) pp.20-25.	
		LAMMINPAA, ANNE, ESTLANDER TUULA, JOLANKI, RHTTA, KANERVA, LASSE,	
C1		Occupational allergic contact dermatitis caused by decorative plants, Contact Dermatitis, 1996,	
50	ł	34:pp.330-335.	
<u> </u>		XP002147441, Biosis: Biosciences Information Service, Barasby R.W.J. et al.:Philadelphia, PA	
1 W		1993.	
a a	<b></b>	Derwent English abstract of HU 210294B (1995)	
		TITHERADGE, MICHAELA., The Enzymatic Measurement of Nitrate and Nitrite, Methods in	
SU	l	Molecular Biology, Vol. 100, publicly available prior to March 1, 2002, pp. 83-91.	
		DETMAR, MICHAEL, The Role of VEGF and thrombospondins in skin agiogenesis, Journal of	
g g	1	Dermatological Science, 24 Suppl, 1 (2000)S78-S84.	
		KOLLIAS, N., BAQER, A. SADIQ, i. SAYRE, R.M., In vitro AND in vivo ULTRAVIOLET-	
Su		INDUCED ALTERATIONS OF OXY-AND DEOXYHEMOGLOBIN, Photochemistry and	
		Photobiology vol. 56, no. 2, (1991) pp. 223-227	
1.1		GUY, R.H. AND MAIBACH, H.I., Rapid Radial Transport of Methyl Nicotinate in the Dermis, Arch	
Se	Į	Dermatol Res (1982)273:91-95	
		YANCOPOULOS, GEORGE D., DAVIS, SAMUEL, GALE, NICHOLAS W., RUDGE, JOHN S.,	
SU		WIEGAND STANLEY J., HOLASH, JOCELYN, Vascular-specific growth factors and blood	
		vessel formation, Nature, vol. 407, (2000)pp. 242-248.	
~		BIKFALVI, ANDREAS, KLEIN, SHARON, PINTUCCI, GIUSEPPE, RIFKIN, DANIEL B.,	
n		Biological Roles of Fibroblast Growth Factor-2*, Endocrine Reviews, vol. 18, no. 1, pp.26-45.	
	<del> </del>	GERBER, HANS-PETER, MCMURTREY, AMY, KOWALSKI, JOE, YAN, MINHONG, KEYT,	
)		BRUCE A, DIXIT, VISHVA, FERARA, NAPOLEONE, Vascular Endothelial Growth Factor	
		Regulates Endothelial Cell Survival through the Phosphatidylinositol 3'-Kinase/Akt Signal	
90		Transduction Pathway, The Journal of Biological Chemistry, (1998), vol. 273,no. 46, pp.30336-	
-	l	30343.	
121	<del>                                     </del>	McCutcheon's Emulsifiers & Detergents, 1986 (North Edition), McPublishing Co., Glen Rock, NJ,	-
n		pp317-324.	
	<del> </del>	BAREL, A.O., COURAGE, W. CLARYS, P., Suction Method for Measurement of Skin	
W	]	Mechanical Properties: The Cutometer®, Handbook of Non-Invasive Methods and the Skin, eds.	
		J. Serup & G. Jemec, Chapter 14.3(1995) pp. 335-340.	
	<del>                                     </del>	Abstract, Acta Derm Venereol 1983:63(4):308-14, Contact allergy to parthenolide in Tanacetum	
EAL		parthenium (L.) Schulz-Bip. (feverfew, Asteraceae)and cross-reactions to related sesquiterpene	
10V	i	lactone containing Compositae species.	
ي	<u>L</u>	Liactoria containing Compositae species.	L

Examiner Signature	Iman D. loc	Date 6-14-04

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 2023

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.